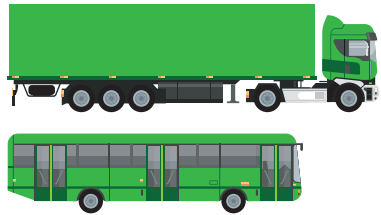




CLEAN FUELS: WASHINGTON'S CARBON SOLUTION

Environmental Solutions



Washington's **Clean Fuel Standard (CFS)** requires fuel suppliers to reduce the carbon intensity of transportation fuels to 20% below 2017 levels by 2038, **cutting statewide GHG emissions by 4.3 million metric tons a year.**



Under the CFS, Washington transportation fuels' carbon intensity will be reduced:

- Up to 0.5% per year in 2023 and 2024
- Up to an additional 1% per year from 2025 through 2027
- Up to an additional 1.5% per year from 2028 through 2031



By 2028, state law requires:

- Permitting of new, in-state biodiesel facilities with a production capacity of at least 60 million gallons per year, including at least one plant with a capacity of 10 million gallons/year
- 15% increase in biodiesel production using Washington feedstocks



The carbon intensity standard cannot exceed 10% until these requirements are met

Economic Solutions



BIODIESEL PRODUCTION FACILITY



107M
gallons of production capacity



3,400
full time jobs



\$800M
in economic activity

1.5M

In 2019, Washington state agencies – including universities – purchased over **1.5 million gallons of biodiesel, or 6.9% of all diesel fuel purchases.** This is an increase over the previous three years, when the level of biodiesel use by state agencies was roughly

1.2M
Washington State Ferries

Washington State Ferries now run on B10 as their standard fuel, using 1.2 million of those 1.5+ million biodiesel gallons annually.

20%

All other Washington state agencies are required to purchase biodiesel for **20% of their annual diesel use.**

Washington's CARBON GOALS



45% GHG reduction *by 2030*
70% GHG reduction *by 2040*
95% GHG reduction and **net-zero emissions by 2050**
(reductions from 2005 levels)

Transportation was the largest source of GHG emissions in 2018, producing **43.5 million metric tons of CO₂** and **44.9% of Washington's total emissions.**



Washington State Department of Transportation **GHG emissions are dominated by the ferry system.**



Washington State Ferries (WSF) plan to convert their fleet to **diesel-electric hybrids.**

ABOUT BIODIESEL AND RENEWABLE DIESEL

Made from plant-based oils, used cooking oils, and animal fats

Clean-burning

Can be used in any diesel engine or heating equipment

Commercially available nationwide

Today's solution for heavy-duty trucking, emergency vehicles, bus fleets, and home or industrial heating